



Cura 374 CON seq list 0605
SEQUENCE LISTING

<110> Taupier, Raymond
Padigar, Muralidhara
Rastelli, Luca
Spaderna, Steven
Shimkets, Richard
Zerhusen, Bryan
Spytek, Kimberly
Shenoy, Suresh
Li, Li
Gusev, Vladimir
Grosse, William
Alsobrook, John
Lepley, Denise
Burgess, Catherine
Gerlach, Valerie
Ellerman, Karen
MacDougall, John
Stone, David
Smithson, Glenda

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690 695 700
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 Ile Glu Lys Thr Glu Val Cys Leu Glu Gln Glu Thr Arg Lys Glu Gly
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<212> PRT

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Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser
515 520 525
Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His
530 535 540
Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu
545 550 555 560
Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln
565 570 575
Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr
580 585 590
Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala
595 600 605
Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val
610 615 620
Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln
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Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln

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645

650

655

Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
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 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg
 675 680 685
 Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Val Ala Ala Val Gly Gly
 690 695 700
 Asp Leu Glu Thr Ser Asp Val Leu Ala Asn Val Thr Tyr Leu Lys Gly
 705 710 715 720
 Glu Leu Pro Ala Trp Ala Ala Arg Ile Leu Arg Asn Val Ser Glu Cys
 725 730 735
 Phe Leu Ala Arg Glu Met Gly Tyr Phe Ser Gln Tyr Val Ala Trp Val
 740 745 750
 Arg Glu Glu Val Thr Gln Arg Ile Ala Thr Cys Gln Pro Leu Ser Gly
 755 760 765
 Ala Leu Asp Asn Ser Arg Val Ile Leu Cys Asp Met Met Ala Asp Pro
 770 775 780
 Trp Asn Ala Phe Trp Phe Cys Leu Ala Trp Cys Thr Phe Phe Leu Ile
 785 790 795 800
 Pro Ser Ile Ile Phe Ala Val Lys Thr Ser Lys Tyr Phe Arg Pro Ile
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 Arg Lys Arg Leu Ser Ser Thr Ser Ser Glu Glu Thr Gln Leu Phe His
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<210> 7

<211> 3261

<212> DNA

<213> Homo sapiens

<400> 7

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<210> 8
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 <212> PRT
 <213> Homo sapiens

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 Leu Gly Pro Ala Glu His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg
 35 40 45
 Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr
 50 55 60
 Gly Thr Val Arg Arg Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro
 65 70 75 80
 Ser Glu Leu Val Lys Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val
 85 90 95

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Asn Glu Val Val Arg Tyr Glu Ala Gly Tyr Val Val Cys Ala Val Ile
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Ala Gly Leu Tyr Leu Leu Leu Val Pro Thr Ala Gly Leu Cys Phe Cys
115 120 125

Cys Cys Arg Cys His Arg Arg Cys Gly Gly Arg Val Lys Thr Glu His
130 135 140

Lys Ala Leu Ala Cys Glu Arg Ala Ala Leu Met Val Phe Leu Leu Leu
145 150 155 160

Thr Thr Leu Leu Leu Leu Ile Gly Val Val Cys Ala Phe Val Thr Asn
165 170 175

Gln Arg Thr His Glu Gln Met Gly Pro Ser Ile Glu Ala Met Pro Glu
180 185 190

Thr Leu Leu Ser Leu Trp Gly Leu Val Ser Asp Val Pro Gln Glu Leu
195 200 205

Gln Ala Val Ala Gln Gln Phe Ser Leu Pro Gln Glu Gln Val Ser Glu
210 215 220

Glu Leu Asp Gly Val Gly Val Ser Ile Gly Ser Ala Ile His Thr Gln
225 230 235 240

Leu Arg Ser Ser Val Tyr Pro Leu Leu Ala Ala Val Gly Ser Leu Gly
245 250 255

Gln Val Leu Gln Val Ser Val His His Leu Gln Thr Leu Asn Ala Thr
260 265 270

Val Val Glu Leu Gln Ala Gly Gln Gln Asp Leu Glu Pro Ala Ile Arg
275 280 285

Glu His Arg Asp Arg Leu Leu Glu Leu Leu Gln Glu Ala Arg Cys Gln
290 295 300

Gly Asp Cys Ala Gly Ala Leu Ser Trp Ala Arg Thr Leu Glu Leu Gly
305 310 315 320

Ala Asp Phe Ser Gln Val Pro Ser Val Asp His Val Leu His Gln Leu
325 330 335

Lys Gly Val Pro Glu Ala Asn Phe Ser Ser Met Val Gln Glu Glu Asn
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Ser Thr Phe Asn Ala Leu Pro Ala Leu Ala Ala Met Gln Thr Ser Ser
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Val Val Gln Glu Leu Lys Lys Ala Val Ala Gln Gln Pro Glu Gly Val
370 375 380

Arg Thr Leu Ala Glu Gly Phe Pro Gly Leu Glu Ala Ala Ser Arg Trp
385 390 395 400

Ala Gln Ala Leu Gln Glu Val Glu Glu Ser Ser Arg Pro Tyr Leu Gln
405 410 415

Glu Val Gln Arg Tyr Glu Thr Tyr Arg Trp Ile Val Gly Cys Val Leu
420 425 430

Cura 374 CON seq list 0605

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 Ala Lys Gly Glu Ala Gly Ala Arg Phe Leu Met Ala Gly Val Gly Leu
 465 470 475 480
 Ser Phe Leu Phe Ala Ala Pro Leu Ile Leu Leu Val Phe Ala Thr Phe
 485 490 495
 Leu Val Gly Gly Asn Val Gln Thr Leu Val Cys Gln Ser Trp Glu Asn
 500 505 510
 Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser
 515 520 525
 Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His
 530 535 540
 Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu
 545 550 555 560
 Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln
 565 570 575
 Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr
 580 585 590
 Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala
 595 600 605
 Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val
 610 615 620
 Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln
 625 630 635 640
 Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln
 645 650 655
 Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
 660 665 670
 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg
 675 680 685
 Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Val Ala Ala Val Gly Gly
 690 695 700
 Asp Leu Glu Thr Ser Asp Val Leu Ala Asn Val Thr Tyr Leu Lys Gly
 705 710 715 720
 Glu Leu Pro Ala Trp Ala Ala Arg Ile Leu Arg Asn Val Ser Glu Cys
 725 730 735
 Phe Leu Ala Arg Glu Met Gly Tyr Phe Ser Gln Tyr Val Ala Trp Val
 740 745 750
 Arg Glu Glu Val Thr Gln Arg Ile Ala Thr Cys Gln Pro Leu Ser Gly
 755 760 765

Cura 374 CON seq list 0605

Ala Leu Asp Asn Ser Arg Val Ile Leu Cys Asp Met Met Ala Asp Pro
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Trp Asn Ala Phe Trp Phe Cys Leu Ala Trp Cys Thr Phe Phe Leu Ile
785 790 795 800

Pro Ser Ile Ile Phe Ala Val Lys Thr Ser Lys Tyr Phe Arg Pro Ile
805 810 815

Arg Lys Arg Leu Ser Ser Thr Ser Ser Glu Glu Thr Gln Leu Phe His
820 825 830

Ile Pro Arg Val Thr Ser Leu Lys Leu
835 840

<210> 9

<211> 2007

<212> DNA

<213> Homo sapiens

<400> 9

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<210> 10

<211> 664

<212> PRT

<213> Homo sapiens

Cura 374 CON seq list 0605

<400> 10

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35 40 45
Ser Ile Arg Ala Ser Arg Gly Thr Ile Gly Gly Tyr Phe Leu Ala Gly
50 55 60
Arg Ser Met Ser Trp Trp Pro Val Ile Gly Ala Ser Leu Met Ser Ser
65 70 75 80
Asn Val Gly Ser Gly Leu Phe Ile Gly Leu Ala Gly Thr Gly Ala Ala
85 90 95
Gly Gly Leu Ala Val Gly Gly Phe Glu Trp Asn Ala Thr Trp Leu Leu
100 105 110
Leu Ala Leu Gly Trp Val Phe Val Pro Val Tyr Ile Ala Ala Gly Val
115 120 125
Val Thr Met Pro Gln Tyr Leu Lys Lys Arg Phe Gly Gly Gln Arg Ile
130 135 140
Gln Met Tyr Met Ser Val Leu Ser Leu Ile Leu Tyr Ile Phe Thr Lys
145 150 155 160
Ile Ser Val Asp Ile Phe Ser Gly Ala Leu Phe Ile Gln Met Ala Leu
165 170 175
Gly Trp Asn Leu Tyr Leu Ser Thr Gly Ile Leu Leu Val Val Thr Ala
180 185 190
Val Tyr Thr Ile Ala Gly Gly Gly Leu Met Ala Val Ile Tyr Thr Asp
195 200 205
Ala Leu Gln Thr Val Ile Met Val Gly Gly Ala Leu Val Leu Met Phe
210 215 220
Leu Gly Lys Glu Glu Thr Gly Trp Tyr Pro Gly Leu Glu Gln Arg Tyr
225 230 235 240
Arg Gln Ala Ile Pro Asn Val Thr Val Pro Asn Thr Thr Cys His Leu
245 250 255
Pro Arg Pro Asp Ala Phe His Met Leu Arg Asp Pro Val Ser Gly Asp
260 265 270
Ile Pro Trp Pro Gly Leu Ile Phe Gly Leu Thr Val Leu Ala Thr Trp
275 280 285
Cys Trp Cys Thr Asp Gln Val Ile Val Gln Arg Ser Leu Ser Ala Lys
290 295 300
Ser Leu Ser His Ala Lys Gly Gly Ser Val Leu Gly Gly Tyr Leu Lys
305 310 315 320
Ile Leu Pro Met Phe Phe Ile Val Met Pro Gly Met Ile Ser Arg Ala
325 330 335

Cura 374 CON seq list 0605

Leu Phe Pro Glu Ile Ala Cys Met Cys Val Pro Val Cys Thr His Ala
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 Cys Ala Ala Arg Lys Arg Lys Glu Gly Val Leu Gln Gly Leu Val Val
 355 360 365
 Ala Val Arg Leu Ser Pro Gly Leu Arg Gly Leu Met Ile Ala Val Ile
 370 375 380
 Met Ala Ala Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ser Ser
 385 390 395 400
 Thr Leu Phe Thr Ile Asp Val Trp Gln Arg Phe Arg Arg Lys Ser Thr
 405 410 415
 Glu Gln Glu Leu Met Val Val Gly Arg Val Phe Val Val Phe Leu Val
 420 425 430
 Val Ile Ser Ile Leu Trp Ile Pro Ile Ile Gln Ser Ser Asn Ser Gly
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 Gln Leu Phe Asp Tyr Ile Gln Ala Val Thr Ser Tyr Leu Ala Pro Pro
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 465 470 475 480
 Gln Gly Ala Phe Trp Gly Leu Val Phe Gly Leu Gly Val Gly Leu Leu
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 Arg Met Ile Leu Glu Phe Ser Tyr Pro Ala Pro Ala Cys Gly Glu Val
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 Asp Arg Arg Pro Ala Val Leu Lys Asp Phe His Tyr Leu Tyr Phe Ala
 515 520 525
 Ile Leu Leu Cys Gly Leu Thr Ala Ile Val Ile Val Ile Val Ser Leu
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 Cys Thr Thr Pro Ile Pro Glu Leu His Thr Tyr Ile Tyr Cys Gly Thr
 545 550 555 560
 Ile His Asn Ser Lys Asp Phe Glu Pro Ile Gln Ile Ser Asn Asn Glu
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 Gln Ala Leu Ser Pro Ala Glu Lys Ala Ala Leu Glu Gln Lys Leu Thr
 580 585 590
 Ser Ile Glu Glu Glu Ser Ser Gly Phe Val Pro Pro Ala Trp Ser Trp
 595 600 605
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 610 615 620
 Lys Ala Ala Leu Glu Gln Lys Leu Thr Ser Ile Glu Glu Glu Pro Leu
 625 630 635 640
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Cura 374 CON seq list 0605

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 <211> 2153
 <212> DNA
 <213> Homo sapiens

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 aagctgccc cctggctgct cctttggtt aggttcggtc gaggtggaca gctgaccatg 2100
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ala Ser Ser Glu Pro Glu Glu Gly Ile Ser Val Phe Glu Leu Asp Tyr
 50 55 60

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Asp Tyr Val Gln Ile Pro Tyr Glu Val Thr Leu Trp Ile Leu Leu Ala
 65 70 75 80
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 85 90 95
 Met Pro Glu Ser Cys Leu Leu Ile Leu Val Gly Ala Leu Val Gly Gly
 100 105 110
 Ile Ile Phe Gly Thr Asp His Lys Ser Pro Pro Val Met Asp Ser Ser
 115 120 125
 Ile Tyr Phe Leu Tyr Leu Leu Pro Pro Ile Val Leu Glu Gly Gly Tyr
 130 135 140
 Phe Met Pro Thr Arg Pro Phe Phe Glu Asn Ile Gly Ser Ile Leu Trp
 145 150 155 160
 Trp Ala Val Leu Gly Ala Leu Ile Asn Ala Leu Gly Ile Gly Leu Ser
 165 170 175
 Leu Tyr Leu Ile Cys Gln Val Lys Ala Phe Gly Leu Gly Asp Val Asn
 180 185 190
 Leu Leu Gln Asn Leu Leu Phe Gly Ser Leu Ile Ser Ala Val Asp Pro
 195 200 205
 Val Ala Val Leu Ala Val Phe Glu Glu Ala Arg Val Asn Glu Gln Leu
 210 215 220
 Tyr Met Met Ile Phe Gly Glu Ala Leu Leu Asn Asp Gly Ile Thr Val
 225 230 235 240
 Val Leu Tyr Asn Met Leu Ile Ala Phe Thr Lys Met His Lys Phe Glu
 245 250 255
 Asp Ile Glu Thr Val Asp Ile Leu Ala Gly Cys Ala Arg Phe Ile Val
 260 265 270
 Val Gly Leu Gly Gly Val Leu Phe Gly Ile Val Phe Gly Phe Ile Ser
 275 280 285
 Ala Phe Ile Thr Arg Phe Thr Gln Asn Ile Ser Ala Ile Glu Pro Leu
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 325 330 335
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 340 345 350
 Tyr Phe Met Lys Met Leu Ser Ser Val Ser Glu Thr Leu Ile Phe Ile
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 370 375 380
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 385 390 395 400

Cura 374 CON seq list 0605

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 Gly Ser Phe Ser Leu Ala Phe Leu Leu Pro Leu Ser Leu Phe Pro Arg
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 Phe Ile Gln Gly Ile Thr Val Gly Pro Leu Val Arg Tyr Leu Asp Val
 465 470 475 480
 Lys Lys Thr Asn Lys Lys Glu Ser Ile Asn Glu Glu Leu His Ile Arg
 485 490 495
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 500 505 510
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 Thr Gly Ile Leu Ser Ser Thr Ala Phe Ser Ile Pro His Gln Ala Gln
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 Arg Ile Gln Gly Ile Lys Arg Leu Ser Pro Glu Asp Val Glu Ser Ile
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 595 600 605
 Ser Tyr Asn Lys Tyr Asn Leu Lys Pro Gln Thr Ser Glu Lys Gln Ala
 610 615 620
 Lys Glu Ile Leu Ile Arg Arg Gln Asn Thr Leu Arg Glu Ser Met Arg
 625 630 635 640
 Lys Gly His Ser Leu Pro Trp Gly Lys Pro Ala Gly Thr Lys Asn Ile
 645 650 655
 Arg Tyr Leu Ser Tyr Pro Tyr Gly Asn Pro Gln Ser Ala Gly Arg Asp
 660 665 670
 Thr Arg Ala Ala Gly Phe Ser Gly Lys Leu Pro Thr Trp Leu Leu Leu
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<210> 13

Cura 374 CON seq list 0605

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<213> Homo sapiens

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gagataaatc caccgccttc aagagaaaca aacgaaagaa gcaaacaggt gaattataat 180
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cttttagctg t 251

<210> 14
<211> 46
<212> PRT
<213> Homo sapiens

<400> 14
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35 40 45

<210> 15
<211> 2144
<212> DNA
<213> Homo sapiens

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Cura 374 CON seq list 0605

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<210> 16
 <211> 606
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ile Ala Ile Pro Glu Gly Ile Pro Ile Glu Thr Lys Ile Leu Asp Leu
 50 55 60
 Ser Lys Asn Arg Leu Lys Ser Val Asn Pro Glu Glu Phe Ile Ser Tyr
 65 70 75 80
 Pro Leu Leu Glu Glu Ile Asp Leu Ser Asp Asn Ile Ile Ala Asn Val
 85 90 95
 Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn Leu Arg Ser Leu Arg Leu
 100 105 110
 Lys Gly Asn Arg Leu Lys Leu Val Pro Leu Gly Val Phe Thr Gly Leu
 115 120 125
 Ser Asn Leu Thr Lys Leu Asp Ile Ser Glu Asn Lys Ile Val Ile Leu
 130 135 140
 Leu Asp Tyr Met Phe Gln Asp Leu His Asn Leu Lys Ser Leu Glu Val
 145 150 155 160
 Gly Asp Asn Asp Leu Val Tyr Ile Ser His Arg Ala Phe Ser Gly Leu
 165 170 175
 Leu Ser Leu Glu Gln Leu Thr Leu Glu Lys Cys Asn Leu Thr Ala Val
 180 185 190
 Pro Thr Glu Ala Leu Ser His Leu Arg Ser Leu Ile Ser Leu His Leu
 195 200 205
 Lys His Leu Asn Ile Asn Asn Met Pro Val Tyr Ala Phe Lys Arg Leu
 210 215 220
 Phe His Leu Lys His Leu Glu Ile Asp Tyr Trp Pro Leu Leu Asp Met
 225 230 235 240
 Met Pro Ala Asn Ser Leu Tyr Gly Leu Asn Leu Thr Ser Leu Ser Val
 245 250 255

Cura 374 CON seq list 0605

Thr Asn Thr Asn Leu Ser Thr Val Pro Phe Leu Ala Phe Lys His Leu
260 265 270

Val Tyr Leu Thr His Leu Asn Leu Ser Tyr Asn Pro Ile Ser Thr Ile
275 280 285

Glu Ala Gly Met Phe Ser Asp Leu Ile Arg Leu Gln Glu Leu His Ile
290 295 300

Val Gly Ala Gln Leu Arg Thr Ile Glu Pro His Ser Phe Gln Gly Leu
305 310 315 320

Arg Phe Leu Arg Val Leu Asn Val Ser Gln Asn Leu Leu Glu Thr Leu
325 330 335

Glu Glu Asn Val Phe Ser Ser Pro Arg Ala Leu Glu Val Leu Ser Ile
340 345 350

Asn Asn Asn Pro Leu Ala Cys Asp Cys Arg Leu Leu Trp Ile Leu Gln
355 360 365

Arg Gln Pro Thr Leu Gln Phe Gly Gly Gln Gln Pro Met Cys Ala Gly
370 375 380

Pro Asp Thr Ile Arg Glu Arg Ser Phe Lys Asp Phe His Ser Thr Ala
385 390 395 400

Leu Ser Phe Tyr Phe Thr Cys Lys Lys Pro Lys Ile Arg Glu Lys Lys
405 410 415

Leu Gln His Leu Leu Val Asp Glu Gly Gln Thr Val Gln Leu Glu Cys
420 425 430

Ser Ala Asp Gly Asp Pro Gln Pro Val Ile Ser Trp Val Thr Pro Arg
435 440 445

Arg Arg Phe Ile Thr Thr Lys Ser Asn Gly Arg Ala Thr Val Leu Gly
450 455 460

Asp Gly Thr Leu Glu Ile Arg Phe Ala Gln Asp Gln Asp Ser Gly Met
465 470 475 480

Tyr Val Cys Ile Ala Ser Asn Ala Ala Gly Asn Asp Thr Phe Thr Ala
485 490 495

Ser Leu Thr Val Lys Gly Phe Ala Ser Asp Arg Phe Leu Tyr Ala Asn
500 505 510

Arg Thr Pro Met Tyr Met Thr Asp Ser Asn Asp Thr Ile Ser Asn Gly
515 520 525

Ser Asn Ala Asn Thr Phe Ser Leu Asp Leu Lys Thr Ile Leu Val Ser
530 535 540

Thr Ala Met Gly Cys Phe Thr Phe Leu Gly Val Val Leu Phe Cys Phe
545 550 555 560

Leu Leu Leu Phe Val Trp Ser Arg Gly Lys Gly Lys His Lys Asn Ser
565 570 575

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Cura 374 CON seq list 0605

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<210> 17
<211> 2187
<212> DNA
<213> Homo sapiens

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<210> 18
<211> 606
<212> PRT
<213> Homo sapiens

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<400> 18
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      20             25             30
Glu Cys Ser Ala Gln Asn Lys Ser Val Ser Cys His Arg Arg Arg Leu
    35             40             45

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Cura 374 CON seq list 0605

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65 70 75 80
Pro Leu Leu Glu Glu Ile Asp Leu Ser Asp Asn Ile Ile Ala Asn Val
85 90 95
Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn Leu Arg Ser Leu Arg Leu
100 105 110
Lys Gly Asn Arg Leu Lys Leu Val Pro Leu Gly Val Phe Thr Gly Leu
115 120 125
Ser Asn Leu Thr Lys Leu Asp Ile Ser Glu Asn Lys Ile Val Ile Leu
130 135 140
Leu Asp Tyr Met Phe Gln Asp Leu His Asn Leu Lys Ser Leu Glu Val
145 150 155 160
Gly Asp Asn Asp Leu Val Tyr Ile Ser His Arg Ala Phe Ser Gly Leu
165 170 175
Leu Ser Leu Glu Gln Leu Thr Leu Glu Lys Cys Asn Leu Thr Ala Val
180 185 190
Pro Thr Glu Ala Leu Ser His Leu Arg Ser Leu Ile Ser Leu His Leu
195 200 205
Lys His Leu Asn Ile Asn Asn Met Pro Val Tyr Thr Phe Lys Arg Leu
210 215 220
Phe His Leu Lys His Leu Glu Ile Asp Tyr Trp Pro Leu Leu Asp Met
225 230 235 240
Met Pro Ala Asn Ser Leu Tyr Gly Leu Asn Leu Thr Pro Leu Ser Val
245 250 255
Thr Asn Thr Asn Leu Ser Thr Val Pro Phe Leu Ala Phe Lys His Leu
260 265 270
Val Tyr Leu Thr His Leu Asn Leu Ser Tyr Asn Pro Ile Ser Thr Ile
275 280 285
Glu Ala Gly Met Phe Ser Asp Leu Ile Arg Leu Gln Glu Leu His Ile
290 295 300
Val Gly Ala Gln Leu Arg Thr Ile Glu Pro His Ser Phe Gln Gly Leu
305 310 315 320
Arg Phe Leu Arg Val Leu Asn Val Ser Gln Asn Leu Leu Glu Thr Leu
325 330 335
Glu Glu Asn Val Phe Ser Ser Pro Arg Ala Leu Glu Val Leu Ser Ile
340 345 350
Asn Asn Asn Pro Leu Ala Cys Asp Cys Arg Leu Leu Trp Ile Leu Gln
355 360 365
Arg Gln Pro Thr Leu Gln Phe Gly Gly Gln Gln Pro Met Cys Ala Gly
370 375 380

Cura 374 CON seq list 0605

Pro Asp Thr Ile Arg Glu Arg Ser Phe Lys Asp Phe His Ser Thr Ala
 385 390 395 400
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 405 410 415
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 420 425 430
 Ser Ala Asp Gly Asp Pro Gln Pro Val Ile Ser Trp Val Thr Pro Arg
 435 440 445
 Arg Arg Phe Ile Thr Thr Lys Ser Asn Gly Arg Ala Thr Val Leu Gly
 450 455 460
 Asp Gly Thr Leu Glu Ile Arg Phe Ala Gln Asp Gln Asp Ser Gly Met
 465 470 475 480
 Tyr Val Cys Ile Ala Ser Asn Ala Ala Gly Asn Asp Thr Phe Thr Ala
 485 490 495
 Ser Leu Thr Val Lys Gly Phe Ala Ser Asp Arg Phe Leu Tyr Ala Asn
 500 505 510
 Arg Thr Pro Met Tyr Met Thr Asp Ser Asn Asp Thr Ile Ser Asn Gly
 515 520 525
 Thr Asn Ala Asn Thr Phe Ser Leu Asp Leu Lys Thr Ile Leu Val Ser
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 Thr Ala Met Gly Cys Phe Thr Phe Leu Gly Val Val Leu Phe Cys Phe
 545 550 555 560
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 595 600 605

<210> 19
 <211> 1215
 <212> DNA
 <213> Homo sapiens

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Cura 374 CON seq list 0605

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<210> 20
 <211> 380
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Leu Gly Met Asn Asn Pro Val Gln Met Ser Glu Val Tyr Ile Ile Gly
 50 55 60
 Ala Gln Pro Leu Cys Ser Gln Leu Ala Gly Leu Ser Gln Gly Gln Lys
 65 70 75 80
 Lys Leu Cys His Leu Tyr Gln Asp His Met Gln Tyr Ile Gly Glu Gly
 85 90 95
 Ala Lys Thr Gly Ile Lys Glu Cys Gln Tyr Gln Phe Arg His Arg Arg
 100 105 110
 Trp Asn Cys Ser Thr Val Asp Asn Thr Ser Val Phe Gly Arg Val Met
 115 120 125
 Gln Ile Gly Ser Arg Glu Thr Ala Phe Thr Tyr Ala Val Ser Ala Ala
 130 135 140
 Gly Val Val Asn Ala Met Ser Arg Ala Cys Arg Glu Gly Glu Leu Ser
 145 150 155 160
 Thr Cys Gly Cys Ser Arg Ala Ala Arg Pro Lys Asp Leu Pro Arg Asp
 165 170 175
 Trp Leu Trp Gly Gly Ser Gly Ala Thr Asn Lys Lys Gly Tyr Arg Ser
 180 185 190
 Ala Lys Glu Ile Val His Ala Arg Glu Arg Gly Arg Ile His Ala Lys
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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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<213> Homo sapiens

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Ala Gly Ser Met Val Val Asp Thr Pro Pro Thr Leu Pro Arg His Ser
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Gly Pro Ala Gly Leu Ile Arg Thr Asp Ser Thr Asp Phe Phe Ile Glu
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Pro Leu Glu Arg Gly Gln Gln Glu Lys Glu Ala Ser Gly Arg Thr His
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Val Val Tyr Arg Arg Glu Ala Val Gln Gln Asp Phe Gly Leu Gly Asp
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Leu Pro Asn Leu Leu Gly Leu Val Gly Asp Gln Leu Gly Asp Thr Glu
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Leu Val Val Asp Asp Ser Val Val Arg Phe His Gly Lys Glu His Val
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Gln Asn Tyr Val Leu Thr Leu Met Asn Ile Val Ser Val Asp Glu Ile
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Tyr His Asp Glu Ser Leu Gly Val His Ile Asn Ile Ala Leu Val Arg
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Leu Ile Met Val Gly Tyr Arg Gln Ser Leu Ser Leu Ile Glu Arg Gly
305 310 315 320
Asn Pro Ser Arg Ser Leu Glu Gln Val Cys Arg Trp Ala His Ser Gln
325 330 335

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Gln Arg Gln Asp Pro Ser His Ala Glu His His Asp His Val Val Phe
340 345 350

Leu Thr Arg Gln Asp Phe Gly Pro Ser Gly Tyr Ala Pro Val Thr Gly
355 360 365

Met Cys His Pro Leu Arg Ser Cys Ala Leu Asn His Glu Asp Gly Phe
370 375 380

Ser Ser Ala Phe Val Ile Ala His Glu Thr Gly His Val Leu Gly Met
385 390 395 400

Glu His Asp Gly Gln Gly Asn Gly Cys Ala Asp Glu Thr Ser Leu Gly
405 410 415

Ser Val Met Ala Pro Leu Val Gln Ala Ala Phe His Arg Phe His Trp
420 425 430

Ser Arg Cys Ser Lys Leu Glu Leu Ser Arg Tyr Leu Pro Ser Tyr Asp
435 440 445

Cys Leu Leu Asp Asp Pro Phe Asp Pro Ala Trp Pro Gln Pro Pro Glu
450 455 460

Leu Pro Gly Ile Asn Tyr Ser Met Asp Glu Gln Cys Arg Phe Asp Phe
465 470 475 480

Gly Ser Gly Tyr Gln Thr Cys Leu Ala Phe Arg Thr Phe Glu Pro Cys
485 490 495

Lys Gln Leu Trp Cys Ser His Pro Asp Asn Pro Tyr Phe Cys Lys Thr
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Lys Lys Gly Pro Pro Leu Asp Gly Thr Glu Cys Ala Pro Gly Lys Trp
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Cys Phe Lys Gly His Cys Ile Trp Lys Ser Pro Glu Gln Thr Tyr Gly
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Gln Asp Gly Gly Trp Ser Ser Trp Thr Lys Phe Gly Ser Cys Ser Arg
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Ser Cys Gly Gly Gly Val Arg Ser Arg Ser Arg Ser Cys Asn Asn Pro
565 570 575

Ser Pro Ala Tyr Gly Gly Arg Leu Cys Leu Gly Pro Met Phe Glu Tyr
580 585 590

Gln Val Cys Asn Ser Glu Glu Cys Pro Gly Thr Tyr Glu Asp Phe Arg
595 600 605

Ala Gln Gln Cys Ala Lys Arg Asn Ser Tyr Tyr Val His Gln Asn Ala
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Lys His Ser Trp Val Pro Tyr Glu Pro Asp Asp Asp Ala Gln Lys Cys
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Glu Leu Ile Cys Gln Ser Ala Asp Thr Gly Asp Val Val Phe Met Asn
645 650 655

Gln Val Val His Asp Gly Thr Arg Cys Ser Tyr Arg Asp Pro Tyr Ser
660 665 670

Cura 374 CON seq list 0605

Val Cys Ala Arg Gly Glu Cys Val Pro Val Gly Cys Asp Lys Glu Val
675 680 685

Gly Ser Met Lys Ala Asp Asp Lys Cys Gly Val Cys Gly Gly Asp Asn
690 695 700

Ser His Cys Arg Thr Val Lys Gly Thr Leu Gly Lys Ala Ser Lys Gln
705 710 715 720

Ala Gly Ala Leu Lys Leu Val Gln Ile Pro Ala Gly Ala Arg His Ile
725 730 735

Gln Ile Glu Ala Leu Glu Lys Ser Pro His Arg Ile Val Val Lys Asn
740 745 750

Gln Val Thr Gly Ser Phe Ile Leu Asn Pro Lys Gly Lys Glu Ala Thr
755 760 765

Ser Arg Thr Phe Thr Ala Met Gly Leu Glu Trp Glu Asp Ala Val Glu
770 775 780

Asp Ala Lys Glu Ser Leu Lys Thr Ser Gly Pro Leu Pro Glu Ala Ile
785 790 795 800

Ala Ile Leu Ala Leu Pro Pro Thr Glu Gly Gly Pro Arg Ser Ser Leu
805 810 815

Ala Tyr Lys Tyr Val Ile His Glu Asp Leu Leu Pro Leu Ile Gly Ser
820 825 830

Asn Asn Val Leu Leu Glu Glu Met Asp Thr Tyr Glu Trp Ala Leu Lys
835 840 845

Ser Trp Ala Pro Cys Ser Lys Ala Cys Gly Gly Gly Ile Gln Phe Thr
850 855 860

Lys Tyr Gly Cys Arg Arg Arg Asp His His Met Val Gln Arg His
865 870 875 880

Leu Cys Asp His Lys Lys Arg Pro Lys Pro Ile Arg Arg Arg Cys Asn
885 890 895

Gln His Pro Cys Ser Gln Pro Val Trp Val Thr Glu Glu Trp Gly Ala
900 905 910

Cys Ser Arg Ser Cys Gly Lys Leu Gly Val Gln Thr Arg Gly Ile Gln
915 920 925

Cys Leu Leu Pro Leu Ser Asn Gly Thr His Lys Val Met Pro Ala Lys
930 935 940

Ala Cys Ala Gly Asp Arg Pro Glu Ala Arg Arg Pro Cys Leu Arg Val
945 950 955 960

Pro Cys Pro Ala Gln Trp Arg Leu Gly Ala Trp Ser Gln Cys Ser Ala
965 970 975

Thr Cys Gly Glu Gly Ile Gln Gln Arg Gln Val Val Cys Arg Thr Asn
980 985 990

Ala Asn Ser Leu Gly His Cys Glu Gly Asp Arg Pro Asp Thr Val Gln
995 1000 1005

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Val Cys Ser Leu Pro Ala Cys Asn Lys Ile Ser Ser Thr Glu Pro Cys
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 Thr Gly Asp Arg Ser Val Phe Cys Gln Met Glu Val Leu Asp Arg Tyr
 1025 1030 1035 1040
 Cys Ser Ile Pro Gly Tyr His Arg Leu Cys Cys Val Ser Cys Ile Lys
 1045 1050 1055
 Lys Ala Ser Gly Pro Asn Pro Gly Pro Asp Pro Gly Pro Thr Ser Leu
 1060 1065 1070
 Pro Pro Phe Ser Thr Pro Gly Ser Pro Leu Pro Gly Pro Gln Asp Pro
 1075 1080 1085
 Ala Asp Ala Ala Glu Pro Pro Gly Lys Pro Thr Gly Ser Glu Asp His
 1090 1095 1100
 Gln His Gly Arg Ala Thr Gln Leu Pro Gly Ala Leu Asp Thr Ser Ser
 1105 1110 1115 1120
 Pro Gly Thr Gln His Pro Phe Ala Pro Glu Thr Pro Ile Pro Gly Ala
 1125 1130 1135
 Ser Trp Ser Ile Ser Pro Thr Thr Pro Gly Gly Leu Pro Trp Gly Trp
 1140 1145 1150
 Thr Gln Thr Pro Thr Pro Val Pro Glu Asp Lys Gly Gln Pro Gly Glu
 1155 1160 1165
 Asp Leu Arg His Pro Gly Thr Ser Leu Pro Ala Ala Ser Pro Val Thr
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gaagaagaag	aaaacaaagg	gaccagatgc	tgccagcaaa	ctgccactga	tgacacctca	180
cactctgtgc	cagttaaaat	tattgaaatt	agagataatt	aaatactgtc	ttctcatgaa	240
ggaagaattc	attagaaatc	aggaacaaat	gaaactatta	gaaggaaagc	aagaggagga	300
aagatcaaaa	gtggatgac	tgagggggac	ccccatgtca	gtagtaacct	tggaagagat	360
tattgatgac	aatcatgcca	tcatgtctac	atctgtgggc	tcagagcatc	tgtgggctca	420
gagcattctt	gtagacaagg	atctgctgga	acctggctgc	tcggtcctgc	tcaaccacaa	480
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tattcagaaa	tacctacatg	atgggcccac	actcatatgg	gaattgtttc	tagttgctga	840
agaacatgca	ccttccatca	tgtttattga	tgaaattgat	gctattagga	caaaaagatg	900
tgactcaaat	tctgatagtg	agagagaaat	tcagcaaata	atgctggaaa	tgttgaacca	960
gttggtatgga	tttgattcaa	ggggagatgt	gaaagttatc	atatccacaa	gccgaataga	1020

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caatgataca atcctggaca actccatcat ggctaaagat gacctctctt gtacagacct 1200
caaggcaatc tgcacagaag ctagtctgat ggcttaaaaa gaacatggaa tgaaagtaac 1260
aaatgaaaac ttcaaaaaat ctcaagaaaa tgttctttat aaagaacagg aagacacccc 1320
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<400> 28

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Val Arg Lys Lys Lys Lys Thr Lys Gly Pro Asp Ala Ala Ser Lys Leu
  35          40          45
Pro Leu Met Thr Pro His Thr Leu Cys Gln Leu Lys Leu Leu Lys Leu
  50          55          60
Glu Ile Ile Lys Tyr Cys Leu Leu Met Lys Glu Glu Phe Ile Arg Asn
  65          70          75          80
Gln Glu Gln Met Lys Leu Leu Glu Gly Lys Gln Glu Glu Glu Arg Ser
  85          90          95
Lys Val Asp Asp Leu Arg Gly Thr Pro Met Ser Val Val Thr Leu Glu
 100          105          110
Glu Ile Ile Asp Asp Asn His Ala Ile Met Ser Thr Ser Val Gly Ser
 115          120          125
Glu His Leu Trp Ala Gln Ser Ile Leu Val Asp Lys Asp Leu Leu Glu
 130          135          140
Pro Gly Cys Ser Val Leu Leu Asn His Lys Val Arg Ala Val Ile Trp
 145          150          155          160
Val Leu Met Asp Asp Thr Asp Thr Leu Val Thr Met Met Lys Val Glu
 165          170          175
Lys Thr Pro Gln Glu Thr Cys Val Asp Thr Gly Gly Leu Asp Ser Gln
 180          185          190
Ile Gln Glu Ile Lys Glu Phe Val Glu Leu Pro Leu Thr His Ser Glu
 195          200          205
Tyr Tyr Glu Glu Met Gly Ile Lys Pro Pro Lys Gly Val Ile His Tyr
 210          215          220
Gly Pro Pro Gly Thr Gly Lys Thr Leu Leu Ala Lys Ala Val Ala Asn
 225          230          235          240
His Ile Leu Ala Thr Phe Leu Gln Val Ile Ser Ser Glu Phe Ile Gln
 245          250          255

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Cura 374 CON seq list 0605

Lys Tyr Leu His Asp Gly Pro Lys Leu Ile Trp Glu Leu Phe Leu Val
 260 265 270

Ala Glu Glu His Ala Pro Ser Ile Met Phe Ile Asp Glu Ile Asp Ala
 275 280 285

Ile Arg Thr Lys Arg Cys Asp Ser Asn Ser Asp Ser Glu Arg Glu Ile
 290 295 300

Gln Gln Ile Met Leu Glu Met Leu Asn Gln Leu Asp Gly Phe Asp Ser
 305 310 315 320

Arg Gly Asp Val Lys Val Ile Ile Ser Thr Ser Arg Ile Glu Thr Leu
 325 330 335

Asp Leu Ala Leu Ile Arg Pro Gly Tyr Thr Asp Arg Lys Leu Lys Phe
 340 345 350

Pro Leu Pro Asp Glu Lys Thr Lys Lys His Ile Phe Gln Met His Thr
 355 360 365

Ser Arg Ile Thr Leu Ala Asn Asp Thr Ile Leu Asp Asn Ser Ile Met
 370 375 380

Ala Lys Asp Asp Leu Ser Cys Thr Asp Leu Lys Ala Ile Cys Thr Glu
 385 390 395 400

Ala Ser Leu Met Ala Leu Lys Glu His Gly Met Lys Val Thr Asn Glu
 405 410 415

Asn Phe Lys Lys Ser Gln Glu Asn Val Leu Tyr Lys Glu Gln Glu Asp
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Pro Asp Ser Phe
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22

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Cura 374 CON seq list 0605		
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<212> DNA

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<212> DNA

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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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Asn Glu Gln His Arg Lys
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